

Scytonema varium Scytovirin Recombinant Protein | SVN recombinant protein

Recombinant Scytonema varium Scytovirin

CATALOG # AAA115543	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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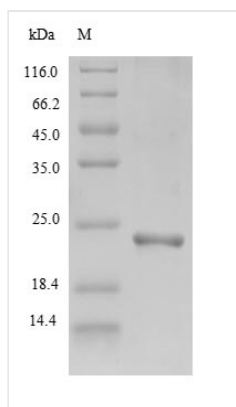
PRODUCT SYNONYMS

Scytonema varium Scytovirin; Recombinant Scytonema varium Scytovirin; SVN recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-95aa; Full Length
Sequence	GSGPTYCWNE ANNPGGPNRC SNNKQCDGAR TCSSSGFCQG TSRKPDGPK GPTYCWDEAK NPGGPNRCSN SKQCDGARTC SSSGFCQGTG GHAAA
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SVN recombinant protein

Has strong anti-HIV activity against T-tropic strains of HIV-1 and weaker activity against M-tropic strains of HIV-1. Inhibits HIV-1 fusion and infection of CD4 LTR beta-gal cells in vitro. Inhibits fusion of HIV infected C-SS cells with uninfected C-SS cells, and fusion of HIV-1 Env expressing HL2/3 cells with CD4 LTR beta-gal cells. Binds to HIV gp120, HIV gp160 and to a lesser extent HIV gp41. Binding to HIV gp120 is glycosylation dependent. Binds with high specificity to the tetrasaccharide Man-alpha-1,2-Man-alpha-1,6-Man-alpha-1,6-Man and also binds the higher-order oligosaccharides oligomannose 8 and oligomannose 9. Does not bind to monosaccharides, complex or hybrid N-linked oligosaccharides or chitin.

References	A potent novel anti-HIV protein from the cultured cyanobacterium <i>Scytonema varium</i>. Bokesch H.R., O'Keefe B.R., McKee T.C., Pannell L.K., Patterson G.M.L., Gardella R.S., Sowder R.C. II, Turpin J., Watson K., Buckheit R.W. Jr., Boyd M.R. <i>Biochemistry</i> 42:2578-2584(2003) A potent novel anti-HIV protein from the cultured cyanobacterium <i>Scytonema varium</i>. Bokesch H.R., O'Keefe B.R., McKee T.C., Pannell L.K., Patterson G.M.L., Gardella R.S., Sowder R.C. II, Turpin J., Watson K., Buckheit R.W. Jr., Boyd M.R. <i>Biochemistry</i> 42:2578-2584(2003) Potent anti-HIV activity of scytovirin domain 1 peptide. Xiong C., O'Keefe B.R., Byrd R.A., McMahon J.B. <i>Peptides</i> 27:1668-1675(2006) Overexpression and purification of scytovirin, a potent, novel anti-HIV protein from the cultured cyanobacterium <i>Scytonema varium</i>. Xiong C., O'Keefe B.R., Botos I., Wlodawer A., McMahon J.B. <i>Protein Expr. Purif.</i> 46:233-239(2006) Carbohydrate microarrays as tools in HIV glycobiology. Ratner D.M., Seeberger P.H. <i>Curr. Pharm. Des.</i> 13:173-183(2007) The novel fold of scytovirin reveals a new twist for antiviral entry inhibitors. McFeeters R.L., Xiong C., O'Keefe B.R., Bokesch H.R., McMahon J.B., Ratner D.M., Castelli R., Seeberger P.H., Byrd R.A. <i>J. Mol. Biol.</i> 369:451-461(2007) Atomic-resolution crystal structure of the antiviral lectin scytovirin. Moulai T., Botos I., Ziolkowska N.E., Bokesch H.R., Krumpke L.R., McKee T.C., O'Keefe B.R., Dauter Z., Wlodawer A. <i>Protein Sci.</i> 16:2756-2760(2007)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209573788
UniProt Accession #	P86041
Molecular Weight	11.7 kDa
NCBI Official Full Name	Scytovirin
UniProt Protein Name	Scytovirin
UniProt Gene Name	SVN
UniProt Synonym Gene Names	SVN
UniProt Entry Name	SVN_SCYVA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.